

AMENDMENT TO THE CLAIMS

1. (Currently Amended) Rubber mixtures comprising a rubber and 1 to 300 parts by wt., with respect to 100 parts by wt. of rubber, of a polyurea filler with a particle size of 0.001 to 500 μm and optionally, further rubber auxiliary substances and cross-linking agents, wherein the polyurea is the reaction product of a polyisocyanate and polyamine wherein the ratio of polyisocyanate to polyamine is from 0.7 to 1.3 mol of isocyanate groups per mol of amine groups and an excess of water is optionally used.

2. (Original) Rubber mixtures according to Claim 1, wherein the rubber mixtures contain 5 to 150 parts by wt. of polyurea filler, with respect to 100 parts by wt. of rubber.

3. (Original) Rubber mixtures according to Claim 1, wherein said particle size is from 0.001 to 100 μm .

4. (Original) Rubber mixtures according to Claim 1, wherein said particle size is from 0.001 to 20 μm .

5. Cancelled.

6. (Previously Amended) A process according to Claim 12, wherein the polyisocyanate is reacted with the polyamine in a solution of the rubber or in an emulsion of the rubber solution and water.

7. Cancelled.

8. (Currently amended) A molded item comprising rubber mixtures comprising a rubber and 1 to 300 parts by wt., with respect to 100 parts by wt. of rubber, of a polyurea filler with a particle size of 0.001 to 500 μm and optionally, further rubber auxiliary substances and cross-linking agents, wherein the polyurea is the reaction product of a polyisocyanate and polyamine wherein the ratio of polyisocyanate to polyamine is from 0.7 to 1.3 mol of isocyanate groups per mol of amine groups and an excess of water is optionally used.

9. (Original) A molded item according to Claim 8, wherein said molded item is an industrial rubber article or tire.

10. (Currently Amended) A vulcanizate comprising a rubber and 1 to 300 parts by wt., with respect to 100 parts by wt. of rubber, of a polyurea filler with a particle size of 0.001 to 500 μm and optionally, further rubber auxiliary substances and cross-linking agents, wherein the polyurea is the reaction product of a polyisocyanate and polyamine wherein the ratio of polyisocyanate to polyamine is from 0.7 to 1.3 mol of isocyanate groups per mol of amine groups and an excess of water is optionally used.

11. (Original) A vulcanizate according to Claim 10, wherein said vulcanizate is an industrial rubber article or tire.

12. (Currently Amended) A process for preparing polyurea-filled rubber mixtures comprising a rubber and 1 to 300 parts by wt., with respect to 100 parts by wt. of rubber, of a polyurea filler with a particle size of 0.001 to 500 μm and optionally, further rubber auxiliary substances and cross-linking agents, comprising the step of reacting a polyisocyanate with a polyamine in a solution of the rubber or in an emulsion of the rubber solution and water, wherein the polyurea is the reaction product of a polyisocyanate and polyamine wherein the ratio of polyisocyanate to polyamine is from 0.7 to 1.3 mol of isocyanate groups per mol of amine groups and an excess of water is optionally used.